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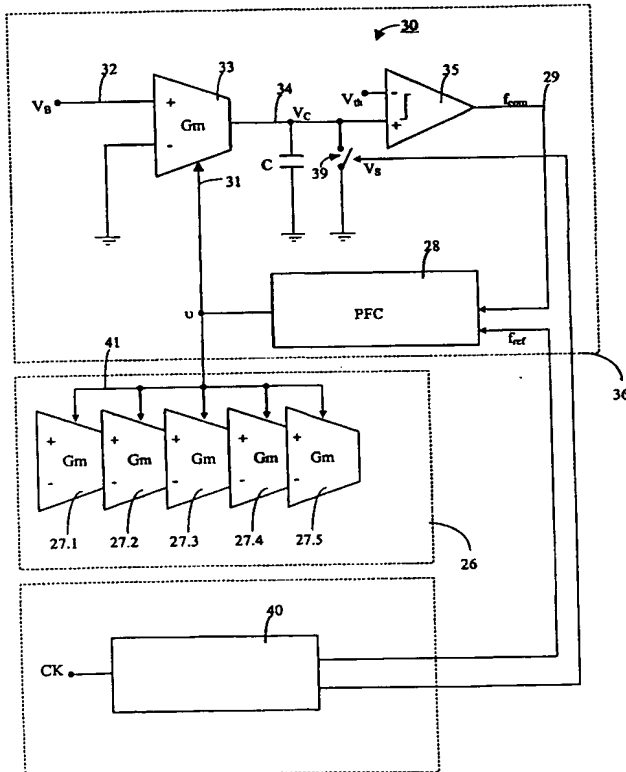
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(54) Title: SELF CALIBRATION OF CONTINUOUS-TIME FILTERS AND SYSTEMS COMPRISING SUCH FILTERS



(57) Abstract: Continuous-time filter system with self-calibration means. The system comprises a master control unit (36) and a slave unit with one or more slave filters (27.1 - 27.n). The master control unit (36) comprises an integrator (30) having circuit elements (33, C) which match those elements of the slave filter (27.1 - 27.n) that define the slave filter's time constant (τ). Furthermore, the master control unit (36) comprises a voltage comparator (35) connected to an output (34) of the integrator (30), the voltage comparator (35) providing an output frequency signal (f_{com}), and a phase frequency comparator (PFC; 28) providing a control signal (v) as output signal, the phase frequency comparator (PFC; 28) receiving said output frequency signal (f_{com}) and a reference frequency signal (f_{ref}) as input signals. The slave unit comprises said at least one slave filter (27.1 - 27.n), the slave filter (27.1 - 27.n) having a control signal input (41) for receiving said control signal (v) thus allowing to calibrate the slave filter's transfer function by influencing the slave filter's time constant (τ).